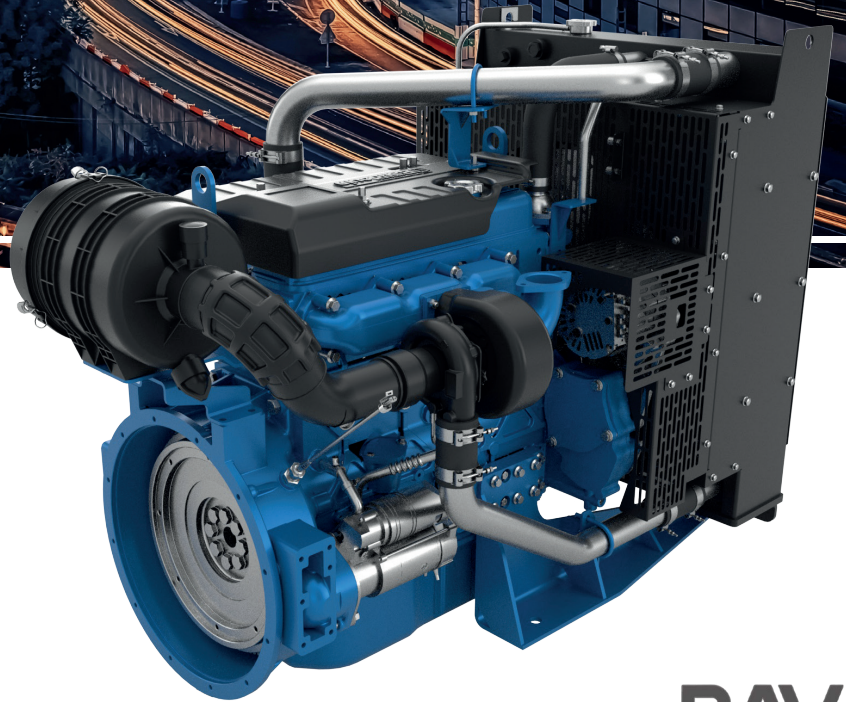


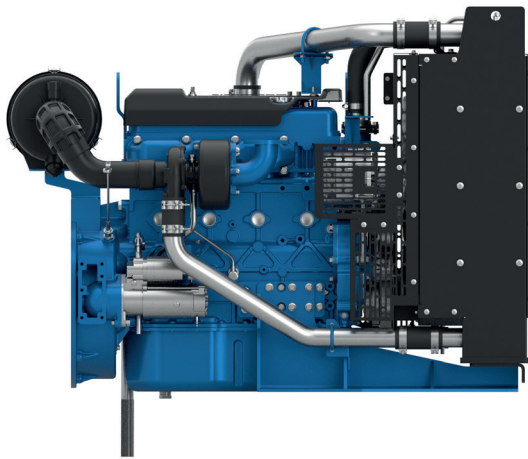


4M10

PowerKit ESP/PRP Diesel Engine



BAV
Science and Industry Group
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+98 (21) 2240755



| | |
|-----------------------|----------------------------------|
| Bore & Stroke (mm) | 105 x 118 |
| Displacement (L) | 4.1 |
| N° of Cylinders | 4 |
| Cylinders Arrangement | In line |
| Fuel System | Mechanical |
| Governor (Gov.) | Electronic |
| Aspiration (Asp.) | Turbocharged |
| | Turbocharged & air-to-air cooled |

Customer benefits

Warranty terms – 2 yrs unlimited PRP, 4 yrs/800h ESP
50°C Cooling package standard with low derating
Low fuel consumption across the range
Extended mean time between overhauls (MTBO)

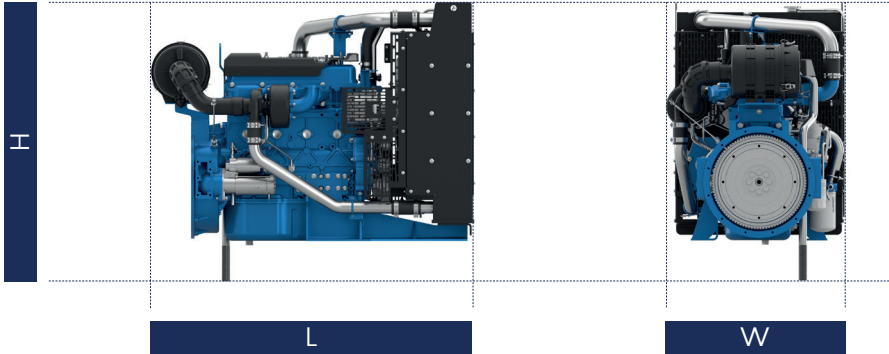
| ESP/ PRP | | | | | | | | | |
|----------------------|---------------------|-----|--------------------------|-----|-----|-----|------|-------|------|
| Diesel Engine Models | Gross Engine Output | | Typical Generator Output | | | | RPM | Asp. | Gov. |
| | ESP | PRP | ESP | | PRP | | | | |
| | kWm | | kWe | kVA | kWe | kVA | | | |
| 4M10G2D0/S | 66 | 60 | 57 | 72 | 52 | 65 | 1500 | T | ELEC |
| 4M10G4D0/S | 80 | 72 | 88 | 70 | 80 | 64 | 1500 | T | ELEC |
| 4M10G6D0/S | 100 | 90 | 88 | 110 | 80 | 100 | 1500 | T/A-A | ELEC |
| 4M10G2D0/S | 80 | 72 | 68 | 85 | 60 | 75 | 1800 | T | ELEC |
| 4M10G4D0/S | 95 | 85 | 83 | 103 | 75 | 94 | 1800 | T | ELEC |
| 4M10G6D0/S | 115 | 105 | 100 | 125 | 90 | 112 | 1800 | T/A-A | ELEC |

* Please note that models ending with S are switchable 50/60 Hz engines.

Standard Equipment

| | |
|-------------------------------|---|
| Engine and block | Cast iron gantry type structure block One-piece forged crankshaft Separate cast iron cylinder heads and wet liners Aluminum alloy pistons with oil cooling gallery |
| Cooling System | Radiator and hoses supplied directly mounted on the engine Thermostatically-controlled system with belt driven coolant pump and pusher fan |
| Lubrication system | Flat bottom large capacity oil pan Spin-on full-flow lube oil filter |
| Fuel system | P type fuel injection pump and injector for higher inject pressure. Duplex fine filter for better efficiency |
| Air intake and exhaust system | Top- mounted turbocharged optimized for gen-set application Special rear mounted air filter with restriction indicator Exhaust manifold shield for heat isolating |
| Electrical System | 12V DC electric starter motor and battery charging alternator Low Oil pressure & high water temperature sensors |
| Flywheel and housing | SAE 3 flywheel housing and 11.5" flywheel |

Dimensions and dry weight (mm/kg)



| Diesel Engine | Speed RPM | Dimensions and dry weights including radiator | | | |
|---------------|--------------|---|---------|---------|--------------|
| | | L mm | W mm | H mm | WEIGHT Kg |
| 4M10G2D0/S | 1500/1800 | 1258 | 708 | 885 | 453 |
| 4M10G4D0/S | 1500/1800 | 1258 | 708 | 885 | 453 |
| 4M10G6D0/S | 1500/1800 | 1330 | 741 | 995 | 453 |

Ratings definitions

Emergency Standby Power (ESP)

Emergency Standby Power is the maximum power available for a varying load for the duration of a main power network failure. The average load factor over 24 hours of operation should not exceed 70% of the engine’s ESP power rating. Typical operational hours of the engine is 200 hours per year, with a maximum usage of 500 hours per year. This includes an annual maximum of 25 hours per year at the ESP power rating. No overload capability is allowed. The engine is not to be used for sustained utility paralleling applications.

Prime Rated Power (PRP)

Prime Power is the maximum power available for unlimited hours of usage in a variable load application. The average load factor should not exceed 70% of the engine’s PRP power rating during any 24 hour period. An overload capability of 10% is available, however, this is limited to 1 hour within every 12 hour period..

- 1) All ratings are based on operating conditions under ISO 8528-1, ISO 3046, DIN6271. Performance tolerance of ±5%.
- 2) Test conditions: 100 kPa, 25°C air inlet temperature, relative humidity of 30%, with fuel density 0.84 kg/L.
Derating may be required for conditions outside these; please contact the factory for details.

